

## PATENT CLAIMS

1. Spray fitting for a tower of an installation for treatment of a gas flow with a liquid, especially for a flue-gas purification assembly, with a main pipe extending essentially horizontally through the center of the tower, a plurality of distributing pipes which extend at both sides of the main pipe essentially in one plane, and a plurality of spray nozzles associated with each distributing pipe, whereby at least one pump for feeding the treatment liquid into the main pipe is associated with the fitting,

characterized in that,

the main pipe (2; 13) is formed as two channels (8, 9; 15, 16) and each channel (8/9; 15, 16) can be supplied via at least one pump with treatment liquid and on each side of the main pipe, a part (4) of the distributing pipes is connected with one of the channels (9) and the other part (5) of the distributing pipes is connected with the other channel (8).

2. Spray fitting of claim 1, characterized in that a sheet (7) in the main pipe (2) extends essentially from the low point at one end (2a) of the main pipe essentially to the topmost point at the other end (2b) of the main pipe, wherein the supply of the treatment liquid takes place at opposite ends of the channels.

3. Spray fitting of claim 1, characterized in that in the main pipe (13), an auxiliary pipe (14) is arranged and the annular chamber defined between the main pipe and the auxiliary pipe defines one channel (15) and the interior of the auxiliary pipe defines the other channel (16), wherein a supply of treatment liquid takes place at opposite ends or adjacent ends of the channels.
4. Spray fitting of at least one of claims 1 through 3, characterized in that the distributing pipes (4, 5; 4', 5') on each side of the main pipe (2; 13) are alternately connected (4, 5, 4.../4', 4', 4',...) with one channel (9; 15) or the other channel (8; 16).
5. Spray fitting of at least one of claims 1 through 4, characterized in that the cross section of the distributing pipes (4; 5) is stepped (4a, 4b...; 5a, 5b...) toward the free ends or decreases constantly.
6. Spray fitting of at least one of claims 1 through 5, characterized in that the stepping takes place such that the distributing pipes have a flat (OS) side and an oppositely disposed stepped side (US).
7. Spray fitting of at least one of claims 1 through 6, characterized in that the distributing pipes (4, 5) are arranged with their flat sides as the upper side (OS) in the tower.

8. Spray fitting of at least one of claims 1 through 7, characterized in that the spacing of adjacent nozzles (6, 6') supported by the distributing pipes is the same within the spraying plane in all directions.

5 9. Tower of an installation for the treatment of a gas flow with a liquid with at least one spray fitting of at least one of claims 1 through 8.